



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 5476

SERIAL NUMBER 10/695,553	FILING DATE 10/28/2003 RULE	CLASS 257	GROUP ART UNIT 2823	ATTORNEY DOCKET NO. 5649-1195
-----------------------------	-----------------------------------	--------------	------------------------	-------------------------------------

APPLICANTS

Young-Nam Hwang, Gyeonggi-do, KOREA, REPUBLIC OF;

Se-Ho Lee, Gyeonggi-do, KOREA, REPUBLIC OF;

** CONTINUING DATA *****

Lee
None

** FOREIGN APPLICATIONS *****

REPUBLIC OF KOREA 2002-67351 11/01/2002

Lee
Yes

IF REQUIRED, FOREIGN FILING LICENSE GRANTED

** 01/29/2004

Foreign Priority claimed 35 USC 119 (a-d) conditions met	STATE OR COUNTRY KOREA, REPUBLIC OF	SHEETS DRAWING 9	TOTAL CLAIMS 43	INDEPENDENT CLAIMS 8
yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after allowance <i>Lee</i> Examiner's Signature <i>Lee</i> Initials <i>Lee</i>				

ADDRESS

20792
 MYERS BIGEL SIBLEY & SAJOVEC
 PO BOX 37428
 RALEIGH , NC
 27627

TITLE

Phase changeable memory devices and methods of forming the same in which an upper electrode includes a tip that extends toward a lower electrode

FILING FEE	FEES: Authority has been given in Paper	<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of
------------	---	---